

Mathematics, Actuarial Science Emphasis, B.S., Comprehensive Major

The following is a hypothetical schedule, based on the 2018-2019 catalog. It assumes no transferred credits, no requirements waived by placement tests, and no courses taken in the summer. UW-Eau Claire cannot guarantee all courses will be offered as shown, but will provide a range of courses that will enable prepared students to fulfill their requirements in a timely period. This is just a guide. Please consult your advisor, the catalog, and your degree audit for specific requirements.

FIRST YEAR

FIRST SEMESTER			SECOND SEMESTER		
Subj/Area/Course	Title	Crs	Subj/Area/Course	Title	Crs
Math 114	Calculus I (S2)	4	MATH 215	Calculus II	4
MATH 150	Intro to the Actuarial Career	1	ECON 104	Princ. of Macro. (K2)	3
WRIT 114 or 116	Blugold Seminar (S1)	5	LE Core Elective	Fine Arts (K4)	3
ECON 103	Princ. of Micro. (K2)	3	LE Core Elective	Integrative Learning (I1)	3
LE Core Elective	Humanities (K3) with Equity, Diversity, Inclusivity (R1)	3	Elective ^a		3
TOTAL		16	TOTAL		16

SECOND YEAR

FIRST SEMESTER			SECOND SEMESTER		
Subj/Area/Course	Title	Crs	Subj/Area/Course	Title	Crs
MATH 216	Calculus III	4	MATH 347	Mathematical Statistics	4
MATH 346	Probability	4	MATH 350	Financial Math	4
ACCT 201	Principles of Accounting I	3	LE Core Elective	Equity, Diversity, and Inclusivity (R1, K3, and DD)	3
LE Core Elective	Natural Science (K1)	3	IS 240	Information Systems	3
Bus. Comm. Course	BCOM course ^b (S1)	2	LE Core Elective	Communication ^c (S1)	2
TOTAL		16	TOTAL		16

THIRD YEAR

FIRST SEMESTER – Apply for Admission to Major			SECOND SEMESTER		
Subj/Area/Course	Title	Crs	Subj/Area/Course	Title	Crs
MATH 470	Math Models for Fin. Econ.	4	MATH 475	Credibility and Loss Modes	4
FIN 320	Principles of Finance	3	LE Core Elective	Natural Science with lab (K1)	4
LE Core Elective	Integrative Learning (I1)	3	FIN 327	Long Term Financial Mgmt.	3
LE Core Elective	Civic, Social, Environmental (R3)	3	LE Core Elective	Global Learning (R2)	3
Elective ^a		3	LE Core Elective	Creativity (S3)	3
TOTAL		16	TOTAL		17

FOURTH YEAR

FIRST SEMESTER			SECOND SEMESTER		
Subj/Area/Course	Title	Crs	Subj/Area/Course	Title	Crs
MATH 450	Foundations of Actuarial Science	4	MATH 460	Contingent Payment Analysis	4
MATH 441 ^d	Regression and Time Series Analysis	4	MATH 312 ^e	Differential Equations and Linear Algebra	4
Elective ^a		4	Elective ^a		3
Elective ^a		3	Elective ^a		3
TOTAL		15	TOTAL		14

RECOMMENDATIONS FOR OPTIONAL HIGH IMPACT PRACTICES (HIPs)

The University of Wisconsin-Eau Claire encourages all students to participate in High Impact Practices. The following information identifies any specific recommendations that faculty in this major have concerning which HIPs might be most beneficial to students, and any recommendations about when those HIPs best fit into the degree plan. Students should also consult their faculty advisor for information on HIPs.

It is recommended that students participate in one or more summer internships. Participating in the Career Conference in fall semester starting in the first year is highly recommended. Study Abroad is also an available opportunity but should be completed very early in your college career.

NOTES

Liberal Education Core (LE Core)

The LE Core comprises 17 learning experiences across 11 learning outcomes. Students must complete a minimum of 36 credits in courses approved for the LE Core.

- K1 – Natural Sciences; two experiences (one lab science experience is required in K1 or K2).
- K2 – Social Sciences; two experiences (one lab science experience is required in K1 or K2).
- K3 – Humanities; two experiences.
- K4 – Fine Arts; one experience.
- S1 – Written and Oral Communication; two experiences (one experience must satisfy the University writing requirement).
- S2 – Mathematics; one experience (must satisfy the University math competency requirement).
- S3 – Creativity; one experience (can be fulfilled in a student's major).
- R1 – Equity, Diversity, and Inclusivity; two experiences (one experience must meet the UW System Design for Diversity (DD) requirement).
- R2 – Global Perspectives; one experience.
- R3 – Civic and Environmental Issues; one experience.
- I1 – Integration; two experiences (one experience can be fulfilled in a student's major).

Additional LE Core Information

- Most LE Core learning experiences are course based, and many courses meet more than one learning outcome (e.g., K3 and R2 or K1 and R3).
- Some learning experiences can also be met outside of a traditional course (e.g., undergraduate research (S3), study abroad (I1)).
- S1 – An English placement score that fulfills the University writing requirement fulfills one S1 experience.
- S1, R2 – A foreign language placement score that qualifies the student to enter the 102 level satisfies one S1 experience.
- S1, R2 – A foreign language placement score that qualifies the student to enter the 202 level satisfies one experience in S1 and the R2 experience.
- S2 – A math placement score that qualifies the student to enter Math 111, 112, 113 or 114 fulfills the S2 experience.
- S3 – Completion of two credits from any approved music ensemble fulfills the S3 experience.
- I1 – Any semester long study abroad program can fulfill one I1 experience.

Course Suggestions (if applicable)

- ^a It is highly recommended that you use electives to complete a certificate or a minor. Recommended certificates are Information Systems (IS), Advanced Business Communication, or Computer Programmer.

Recommended courses for IS Certificate: IS 240, IS 310, IS 290, IS 304 (12 credits).

Advanced Business Communication Certificate requires 12 credits from BCOM: 206, 207, 306, 307, 308, 405, 490, 491, 495, 499.

Computer Programmer Certificate requires 15 credits: CS: 145 (or 148), 163, 245, 252.

- ^b One of BCOM 206, Business Writing or BCOM 207, Business Presentations is required. It is highly recommended that you take both.

- ^c It is highly recommended that you take both BCOM 206, Business Writing, and BCOM 207, Business Presentations.

- ^d One of Math 441, Regression and Time Series Analysis, or Econ 316, Econometrics, is required.

- ^e One of Math 312, Differential Equations and Linear Algebra, or Math 324, Linear Algebra, is required.

Application to Major (if applicable)

Entry Requirements: To be admitted to this program students must:

1. Complete at least 15 credits of courses required for the major with a GPA in those courses of at least 3.0.
2. Complete Math 346 and Math 350 with a grade of B- or better, or earn a passing grade on the corresponding actuarial professional exam(s).